Wireless Mesh IoT sensor interface - based on Dust Network

- **Environment Monitoring**
  - Acoustic
  - UV
  - Air Quality
  - Power
  - Voltage

- **Green Energy**
  - Humidity
  - Temperature
  - Airflow
  - Acoustic

- **Building Automation**
  - Temperature
  - Humidity
  - Lights
  - Acoustic

- **Factory Automation**
  - Pressure
  - Humidity
  - Gas
  - Strain Gauge
  - Temperature

**Interfaces**
- I²C
- SPI
- 4-20 mA
- UART
- ADC

Connect up to 4 additional sensors to each Vicotee Njord

Vicotee Cloud

Third Party

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www.vicotee.com
### Benefits:

- Make traditional wired sensors wireless
- Configurable sensor interface
  - Our goal is to cover all standard sensor interfaces
- Self-healing Mesh network
- Plug and Play
- Low Power – Runs on batteries for years
- >99.999% Network Reliability in the Most Challenging RF Environment
- Each node has an unique IPv6 address – remotely access
- Programmable-Over The Air – Makes it easy to update FW
- “Call-home” function for user-defined configuration
- Use a standard protocol – 6LoWPAN Dust Networks 128 bit AES-based encryption

### Network Features:

- Time Synchronized Mesh Protocol (TSMP)
- Time Slotted Channel Hopping (TSCH)
- Nodes know precisely when to talk, listen, or sleep
- Packet exchanges are synchronized
- No packets collide on the network
- Every packet is scheduled and synchronized for energy efficiency, with no extra preamble (Tx side) or guard interval time (Rx side)
- Multiple transmissions can occur simultaneously, increasing network bandwidth
- Automatically changes channels to avoid inevitable

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**Vicotee Njord** - a wireless Mesh network system you can set up in minutes. Just connect your sensors to Vicotee Njord. Register your devices on our web portal and start log and access your sensor data - real time!

**Bifrost Gateway**

- Vicotee Cloud connection
- Ethernet connector
- 5V

For more information go to [www.vicotee.com](http://www.vicotee.com)